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Scalable Trigger Processing - ► berkeley.edu [PDF]

EN Hanson, C Carnes, L Huang, M Konyala, L Noronha ... - PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DATA ..., 1999 - doi.ieeecs.org

... This rule illustrates the use of an execSQL TriggerMan command that allows **SQL** statements to ... to two data sources, the AND of its conjuncts is a **join** predicate. ...

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Continual Queries for Internet Scale Event-Driven Information Delivery - ► iitb.ac.in [PDF]

L Liu, C Pu, W Tang - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 1999 - doi.ieeecomputersociety.org

... A continual query is defined by a triple (\$Q\$, \$T_{\{cq\}}\$, Stop), consisting of a normal query \$Q\$ (eg, written in **SQL**), a trigger condition \$T_{\{cq\}}\$, and a ...

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[PDF] ► Improving data cleaning quality using a data lineage facility

H Galhardas, D Florescu, D Shasha, E Simon, CA ... - Proc. DMDW'01, 2001 - tagus.ist.utl.pt

... The view operator, which essentially corresponds to an **SQL** select statement, takes several relations as input and returns a single relation as output; it can ...

Cited by 24 - Related articles - View as HTML - Web Search - All 7 versions

Rule based database access control—a practical approach

T Didriksen - Proceedings of the second ACM workshop on Role-based access ..., 1997 - portal.acm.org

... Rules in database systems are often described with the **event**, **condition**, **action** or $\langle E, C, A \rangle$ paradigm ... The symbol "W" corresponds to the **SQL** join operator. ...

Cited by 9 - Related articles - Web Search - All 3 versions

Eliminating costly redundant computations from **SQL** trigger executions

F Llirbat, F Fabret, E Simon - ACM SIGMOD Record, 1997 - portal.acm.org

... Throughout this paper, we consider relational databases and **Event-Condition-Action** rules (henceforth ... The condition is an **SQL** search condition over the database ...

Cited by 13 - Related articles - Web Search - BL Direct - All 5 versions

An agent-based approach to extending the native active capability of relational database systems - ► uta.edu [PDF]

L Li, S Chakravarthy - Data Engineering, 1999. Proceedings., 15th International ..., 1999 - ieeexplore.ieee.org

... can be done by defining **event-condition-action** (ECA) rules ... from LED and generate the **SQL** code for ... Join syscontext and dbname.username.TableName.inserted (or ...

Cited by 22 - Related articles - Web Search - Library Search - BL Direct - All 7 versions

An algebraic approach to static analysis of active database rules

E Baralis, J Widom - ACM Transactions on Database Systems (TODS), 2000 - portal.acm.org

... Section 4 we describe our **event-condition-action** (ECA) and ... us to represent the **SQL** data modification ... select (), project (), cross-product (), natural **join** (...

Cited by 67 - Related articles - Web Search - BL Direct - All 4 versions

The hyperion project: from data integration to data coordination - ► toronto.edu [PDF]

M Arenas, V Kantere, A Kementsietsidis, I Kiringa, ... - ACM SIGMOD Record, 2003 - portal.acm.org

... New peers may join or leave the network at ... we propose a mechanism which uses event-condition-action (ECA) rules ... expressed for convenience as an SQL trigger). ...
Cited by 86 - Related articles - Web Search - BL Direct - All 14 versions

[PDF] ► [An Algebraic Approach to Rule Analysis in Expert Database Systems](#)

E Baralis, J Widom, Computer Science Dept, ... - PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON VERY LARGE ..., 1994 - reports.stanford.edu

... in a recent paper KU94 , where Event- Condition-Action rules are ... allows us to represent the SQL data modification ... cross-product , natural join 1 , union ...

Cited by 92 - Related articles - View as HTML - Web Search - Library Search - BL Direct - All 12 versions

[An Introduction to the TriggerMan Asynchronous Trigger Processor](#)

EN Hanson, S Khosla - Rules in Database Systems: Third International Workshop, ..., 1997 - books.google.com ... work on database triggers follows the event-condition-action (ECA) rule ... and having clauses familiar to users of SQL. ... to test selection and join conditions, plus ...

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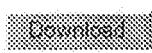
Key authors: [J Widom](#) - [L Liu](#) - [S Babu](#) - [E Baralis](#) - [C Pu](#)

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Scalable trigger processing

Hanson, E.N., Carnes, C., Huang, L., Konyala, M., Noronha, L., Parthasarathy, S., P.
CISE Dept., Florida Univ., Gainesville, FL;

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Location: Sydney, NSW, Australia
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References Cited: 27
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Digital Object Identifier: 10.1109/ICDE.1999.754942
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Abstract

Current database trigger systems have extremely limited scalability. This paper proposes a truly scalable trigger system. Scalability to large numbers of triggers is achieved with a trigger structure that uses main memory effectively, and a memory-conserving selection predicate index based on unique expression formats called expression signatures. A key observation is that if a very large number of triggers are created, many will have the same structure, except for the appearance of different constants. These tables can be augmented with a database index or main-memory index to create a predicate index. The design presented also uses a number of types of concurrency to ensure scalability, including token (tuple)-level, condition-level, rule action-level and data-level concurrency.

Index Terms

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Non-controlled Indexing

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Author Keywords

Not Available

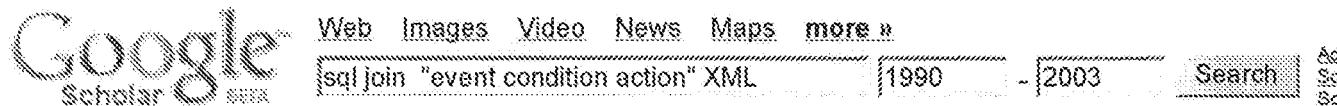
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L Liu, C Pu, W Tang - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 1999 - doi.ieeecomputersociety.org

... A continual query is defined by a triple (\$Q\$, \$T_{\{cq\}}\$, Stop), consisting of a normal query \$Q\$ (eg, written in **SQL**), a trigger condition \$T_{\{cq\}}\$, and a ...

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A Eberhart - Proceedings of the international Workshop on Rule Markup ..., 2002 - mindswap.org

... **Event Condition Action** Rules ... the equi-join of b and c on the variable Y . In turn, the ... Microsoft Access which is used as a graphical front-end for **SQL** Server. ...

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[Continuous queries over data streams](#) - ► [uoc.gr](#) [PDF]

S Babu, J Widom - ACM SIGMOD Record, 2001 - portal.acm.org

... if the load exceeds a threshold T. A **SQL** version of ... case where Q is a **self-join**, we can ... Triggers, also called **event-condition-action** rules, are used to monitor ...

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[Towards bringing database management task in the realm of IT non-experts](#)

A Gupta, M Bhide, M Mohania - Data Engineering, 2003. Proceedings. 19th International ..., 2003 - ieeexplore.ieee.org

... interpretation of ECA (**Event-Condition-Action**) rule. ... Using **SQL**, parts of multiple tables can be selected using Cartesian product or **Join**, allowing the ...

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S Chakravarthy - Special Issue of the Bulletin of the IEEE TC on Data ..., 1992 - itlab.uta.edu

... We have successfully implemented K-way **join**, Query/Sub ... was provided through an ODBC or **SQL** cursor interface ... into a set of rules (**event-condition-action** rules so ...

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[PDF] ► [Enforcement of Business Rules in Relational Databases Using Constraints](#)

G Zimbrão, R Miranda, JM de Souza, MH Estolano, ... - 2003 - lbd.dcc.ufmg.br

... 2,6,21] presents a model of **event-condition-action** rules, or ... out in [4] for mapping from OCL to **SQL**. ... the navigation pattern – we used **join** operations instead ...

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[An event driven approach to customer relationship management in e-brokerage industry](#) -

► [hawaii.edu](#) [PDF]

DKW Chiu, WCW Chan, GKW Lam, SC Cheung, FT Luk - System Sciences, 2003. Proceedings of the 36th Annual Hawaii ..., 2003 - ieeexplore.ieee.org

... Event driven execution of rules in **event-condition-action** (ECA) form can ... Therefore, without significant reasons, clients will unlikely **join** another brokerage ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

[View-Based Contracts in an E-Service Cross-Organizational Workflow Environment](#)

E Kafeza, DKW Chiu, I Kafeza - LECTURE NOTES IN COMPUTER SCIENCE, 2001 - Springer
... determines whether there is a **join** immediately before ... derived objects specified with
object-**SQL** can be ... can be specified in (Event, Condition, Action) form or ...

[Cited by 35](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 4 versions](#)

ObjectGlobe: Ubiquitous query processing on the Internet - ► [tu-muenchen.de](#) [PDF]
R Braumandl, M Keidl, A Kemper, D Kossmann, A ... - The VLDB Journal The International Journal on Very
Large ..., 2001 - Springer
... sketched in Fig.3. The real **XML** plan is ... the operator is executed, eg, the final **join**
and the ... recently, ObjectGlobe supports a subset of **SQL**; ObjectGlobe, however ...
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Effective Scheduling of Detached Rules in Active Databases - ► [cnr.it](#) [PDF]
S Ceri, C Gennaro, S Paraboschi, G Serazzi - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA
ENGINEERING, 2003 - doi.ieeecomputersociety.org
... They follow the **Event-Condition-Action** (ECA) paradigm, where the ... is either a collection
of **SQL** statements, or ... Clients generated by **Split join** the queue of the ...
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... cq)\$, Stop), consisting of a normal query \$Q\$ (eg, written in **SQL**), a trigger ... comparison_op> value, such as "stock.price > 100." A **composite event** is defined ...

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[A Frame Work for Modeling Electronic Contracts](#)

K Kanapalem, AR Dani, PR Krishna - Conceptual Modeling-Er 2001: 20th International Conference ..., 2001 - books.google.com

... to entities in the form of **Event-Condition-Action (ECA)** rules. ... the tool generates an active **SQL-92** database ... operators such as projection, **join** and aggregation ...

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IBM India Research Laboratory;

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